

**Clusters-Programs of Study 2011-2012**

| Clus# | Cluster                               | Program of Study                                           | Description         | Course# | Course                                                   | Sequence |
|-------|---------------------------------------|------------------------------------------------------------|---------------------|---------|----------------------------------------------------------|----------|
| 01    | Agriculture, Food & Natural Resources | <b>Animal Systems - Pre Veterinary (2)</b>                 | <b>12, HQ, 0910</b> | 5171    | <a href="#">Agriscience</a>                              | 1        |
|       |                                       |                                                            |                     | 5172    | <a href="#">Small Animal Care</a>                        | 2        |
|       |                                       |                                                            |                     | 5168    | <a href="#">Horse Science</a>                            | 3        |
|       |                                       |                                                            |                     | 5176    | <a href="#">Veterinary Science</a>                       | 4        |
|       |                                       | <b>Animal Systems - Pre Veterinary (4)</b>                 | <b>12, 0910</b>     | 5154    | <a href="#">Principles of Agricultural Sciences</a>      | 1        |
|       |                                       |                                                            |                     | 5172    | <a href="#">Small Animal Care</a>                        | 2        |
|       |                                       |                                                            |                     | 5168    | <a href="#">Horse Science</a>                            | 3        |
|       |                                       |                                                            |                     | 5176    | <a href="#">Veterinary Science</a>                       | 4        |
|       |                                       | <b>Animal Systems - Production Animals (6)</b>             | <b>12, HQ, 0910</b> | 5171    | <a href="#">Agriscience</a>                              | 1        |
|       |                                       |                                                            |                     | 5155    | <a href="#">Advanced Principles of Agriculture</a>       | 2        |
|       |                                       |                                                            |                     | 5177    | <a href="#">Livestock Management</a>                     | 3        |
|       |                                       |                                                            |                     | 5186    | <a href="#">Animal Biotechnology</a>                     | 4        |
|       |                                       | <b>Animal Systems - Production Animals (5)</b>             | <b>12, 0910</b>     | 5154    | <a href="#">Principles of Agricultural Sciences</a>      | 1        |
|       |                                       |                                                            |                     | 5155    | <a href="#">Advanced Principles of Agriculture</a>       | 2        |
|       |                                       |                                                            |                     | 5177    | <a href="#">Livestock Management</a>                     | 3        |
|       |                                       |                                                            |                     | 5186    | <a href="#">Animal Biotechnology</a>                     | 4        |
|       |                                       | <b>Power, Structures and Technical Systems (2)</b>         | <b>12, HQ, 0910</b> | 5171    | <a href="#">Agriscience</a>                              | 1        |
|       |                                       |                                                            |                     | 5151    | <a href="#">Agricultural Mechanics &amp; Maintenance</a> | 2        |
|       |                                       |                                                            |                     | 5152    | <a href="#">Agricultural Power and Equipment</a>         | 3        |
|       |                                       |                                                            |                     | 5178    | <a href="#">Agricultural Engineering</a>                 | 4        |
|       |                                       | <b>Power, Structures and Technical Systems (4)</b>         | <b>12, 0910</b>     | 5154    | <a href="#">Principles of Agricultural Sciences</a>      | 1        |
|       |                                       |                                                            |                     | 5151    | <a href="#">Agricultural Mechanics &amp; Maintenance</a> | 2        |
|       |                                       |                                                            |                     | 5152    | <a href="#">Agricultural Power and Equipment</a>         | 3        |
|       |                                       |                                                            |                     | 5178    | <a href="#">Agricultural Engineering</a>                 | 4        |
|       |                                       | <b>Agribusiness, Food Products and Process Systems (2)</b> | <b>12, HQ, 0910</b> | 5171    | <a href="#">Agriscience</a>                              | 1        |
|       |                                       |                                                            |                     | 5169    | <a href="#">Leadership Communications</a>                | 2        |
|       |                                       |                                                            |                     | 5153    | <a href="#">Agricultural Sales and Marketing</a>         | 3        |
|       |                                       |                                                            |                     | 5150    | <a href="#">Agricultural Business/Finance</a>            | 4        |
|       |                                       | <b>Agribusiness, Food Products and Process Systems (4)</b> | <b>12, 0910</b>     | 5154    | <a href="#">Principles of Agricultural Sciences</a>      | 1        |
|       |                                       |                                                            |                     | 5169    | <a href="#">Leadership Communications</a>                | 2        |
|       |                                       |                                                            |                     | 5153    | <a href="#">Agricultural Sales and Marketing</a>         | 3        |
|       |                                       |                                                            |                     | 5150    | <a href="#">Agricultural Business/Finance</a>            | 4        |
|       |                                       | <b>Environmental and Natural Resources Systems (6)</b>     | <b>12, HQ, 0910</b> | 5171    | <a href="#">Agriscience</a>                              | 1        |
|       |                                       |                                                            |                     | 5165    | <a href="#">Forestry Management</a>                      | 2        |
|       |                                       |                                                            |                     | 5174    | <a href="#">Wildlife Management &amp; Recreation</a>     | 3        |
|       |                                       |                                                            |                     | 5161    | <a href="#">Plant and Soil Science</a>                   | 4        |
|       |                                       | <b>Environmental and Natural Resources Systems (5)</b>     | <b>12, 0910</b>     | 5154    | <a href="#">Principles of Agricultural Sciences</a>      | 1        |
|       |                                       |                                                            |                     | 5165    | <a href="#">Forestry Management</a>                      | 2        |
|       |                                       |                                                            |                     | 5174    | <a href="#">Wildlife Management &amp; Recreation</a>     | 3        |
|       |                                       |                                                            |                     | 5161    | <a href="#">Plant and Soil Science</a>                   | 4        |
|       |                                       | <b>Agricultural Education Systems (4)</b>                  | <b>12, HQ, 0910</b> | 5171    | <a href="#">Agriscience</a>                              | 1        |
|       |                                       |                                                            |                     | 5155    | <a href="#">Advanced Principles of Agriculture</a>       | 2        |
|       |                                       |                                                            |                     | 5169    | <a href="#">Leadership Communications</a>                | 3        |
|       |                                       |                                                            |                     | 5161    | <a href="#">Plant and Soil Science</a>                   | 4        |
|       |                                       | <b>Agricultural Education Systems (3)</b>                  | <b>12, 0910</b>     | 5154    | <a href="#">Principles of Agricultural Sciences</a>      | 1        |
|       |                                       |                                                            |                     | 5155    | <a href="#">Advanced Principles of Agriculture</a>       | 2        |
|       |                                       |                                                            |                     | 5169    | <a href="#">Leadership Communications</a>                | 3        |
|       |                                       |                                                            |                     | 5161    | <a href="#">Plant and Soil Science</a>                   | 4        |

**Clusters-Programs of Study 2011-2012**

| Clus# | Cluster                               | Program of Study                                          | Description         | Course# | Course                                               | Sequence |
|-------|---------------------------------------|-----------------------------------------------------------|---------------------|---------|------------------------------------------------------|----------|
| 01    | Agriculture, Food & Natural Resources | <b>Plant Systems - Landscaping &amp; Turf Science (4)</b> | <b>12, HQ, 0910</b> | 5171    | <a href="#">Agriscience</a>                          | 1        |
|       |                                       |                                                           |                     | 5163    | <a href="#">Landscaping &amp; Turf Management</a>    | 2        |
|       |                                       |                                                           |                     | 5167    | <a href="#">Greenhouse Management</a>                | 3        |
|       |                                       |                                                           |                     | 5175    | <a href="#">Plant Biotechnology</a>                  | 4        |
|       |                                       | <b>Plant Systems - Landscaping &amp; Turf Science (3)</b> | <b>12, 0910</b>     | 5184    | <a href="#">Principles of Horticultural Sciences</a> | 1        |
|       |                                       |                                                           |                     | 5163    | <a href="#">Landscaping &amp; Turf Management</a>    | 2        |
|       |                                       |                                                           |                     | 5167    | <a href="#">Greenhouse Management</a>                | 3        |
|       |                                       |                                                           |                     | 5175    | <a href="#">Plant Biotechnology</a>                  | 4        |
|       |                                       | <b>Plant Systems - Horticulture Production (7)</b>        | <b>12, HQ, 0910</b> | 5171    | <a href="#">Agriscience</a>                          | 1        |
|       |                                       |                                                           |                     | 5159    | <a href="#">Aquaculture/Hydroponics</a>              | 2        |
|       |                                       |                                                           |                     | 5167    | <a href="#">Greenhouse Management</a>                | 3        |
|       |                                       |                                                           |                     | 5175    | <a href="#">Plant Biotechnology</a>                  | 4        |
|       |                                       | <b>Plant Systems - Horticulture Production (5)</b>        | <b>12, 0910</b>     | 5184    | <a href="#">Principles of Horticultural Sciences</a> | 1        |
|       |                                       |                                                           |                     | 5159    | <a href="#">Aquaculture/Hydroponics</a>              | 2        |
|       |                                       |                                                           |                     | 5167    | <a href="#">Greenhouse Management</a>                | 3        |
|       |                                       |                                                           |                     | 5175    | <a href="#">Plant Biotechnology</a>                  | 4        |
| 02    | Architecture and Construction         | <b>Design &amp; Preconstruction (2)</b>                   | <b>TI, 0809</b>     | 5701    | <a href="#">Career Management Success</a>            | 1        |
|       |                                       |                                                           |                     | 5788    | <a href="#">Computer- Aided Drafting</a>             | 2        |
|       |                                       |                                                           |                     | 5789    | <a href="#">Advanced Computer-Aided Drafting</a>     | 3        |
|       |                                       | <b>Design &amp; Preconstruction (1)</b>                   | <b>TEE, 0809</b>    | 5701    | <a href="#">Career Management Success</a>            | 1        |
|       |                                       |                                                           |                     | 3823    | <a href="#">Computer- Aided Drafting</a>             | 2        |
|       |                                       |                                                           |                     | 3824    | <a href="#">Advanced Computer-Aided Drafting</a>     | 3        |
|       |                                       | <b>Construction Electrical (1)</b>                        | <b>0809</b>         | 5701    | <a href="#">Career Management Success</a>            | 1        |
|       |                                       |                                                           |                     | 5730    | <a href="#">Construction Core</a>                    | 2        |
|       |                                       |                                                           |                     | 5733    | <a href="#">Electrical I</a>                         | 3        |
|       |                                       |                                                           |                     | 5734    | <a href="#">Electrical II</a>                        | 4        |
|       |                                       | <b>Construction Masonry &amp; Concrete (1)</b>            | <b>0809</b>         | 5701    | <a href="#">Career Management Success</a>            | 1        |
|       |                                       |                                                           |                     | 5730    | <a href="#">Construction Core</a>                    | 2        |
|       |                                       |                                                           |                     | 5735    | <a href="#">Masonry I</a>                            | 3        |
|       |                                       |                                                           |                     | 5736    | <a href="#">Masonry II</a>                           | 4        |
|       |                                       |                                                           |                     | 5737    | <a href="#">Concrete I</a>                           | 5        |
|       |                                       |                                                           |                     | 5738    | <a href="#">Concrete II</a>                          | 6        |
|       |                                       | <b>Construction Plumbing (1)</b>                          | <b>0809</b>         | 5701    | <a href="#">Career Management Success</a>            | 1        |
|       |                                       |                                                           |                     | 5730    | <a href="#">Construction Core</a>                    | 2        |
|       |                                       |                                                           |                     | 5739    | <a href="#">Plumbing I</a>                           | 3        |
|       |                                       |                                                           |                     | 5740    | <a href="#">Plumbing II</a>                          | 4        |
|       |                                       | <b>Construction HVAC/R (1)</b>                            | <b>0809</b>         | 5701    | <a href="#">Career Management Success</a>            | 1        |
|       |                                       |                                                           |                     | 5730    | <a href="#">Construction Core</a>                    | 2        |
|       |                                       |                                                           |                     | 5741    | <a href="#">HVAC/R I</a>                             | 3        |
|       |                                       |                                                           |                     | 5742    | <a href="#">HVAC/R II</a>                            | 4        |
|       |                                       | <b>Construction Welding (1)</b>                           | <b>0809</b>         | 5701    | <a href="#">Career Management Success</a>            | 1        |
|       |                                       |                                                           |                     | 5730    | <a href="#">Construction Core</a>                    | 2        |
|       |                                       |                                                           |                     | 5786    | <a href="#">Basic Principles Welding</a>             | 3        |
|       |                                       |                                                           |                     | 5787    | <a href="#">Advanced Welding Applications</a>        | 4        |
|       |                                       | <b>Construction Carpentry (1)</b>                         | <b>0809</b>         | 5701    | <a href="#">Career Management Success</a>            | 1        |
|       |                                       |                                                           |                     | 5730    | <a href="#">Construction Core</a>                    | 2        |
|       |                                       |                                                           |                     | 5731    | <a href="#">Carpentry I</a>                          | 3        |
|       |                                       |                                                           |                     | 5732    | <a href="#">Carpentry II</a>                         | 4        |

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|-------|-----------------------------------------|---------------------------------------------------------|---------------------|---------|------------------------------------------------------------|----------|
| 02    | Architecture and Construction           | <b>Interior Design (3)</b>                              | <b>0910</b>         | 5603    | <a href="#">Family and Consumer Sciences</a>               | 1        |
|       |                                         |                                                         |                     | 5624    | <a href="#">Personal, Academic and Career Excellence</a>   | 2        |
|       |                                         |                                                         |                     | 5626    | <a href="#">Interior Design</a>                            | 3        |
|       |                                         |                                                         |                     | 5614    | <a href="#">Housing</a>                                    | 4        |
|       |                                         |                                                         |                     | 5623    | <a href="#">Life Connections</a>                           | 5        |
|       |                                         | <b>Landscape Design (6)</b>                             | <b>12, HQ, 0910</b> | 5171    | <a href="#">Agriscience</a>                                | 1        |
|       |                                         |                                                         |                     | 5163    | <a href="#">Landscaping &amp; Turf Management</a>          | 2        |
|       |                                         |                                                         |                     | 5788    | <a href="#">Computer- Aided Drafting</a>                   | 3        |
|       |                                         |                                                         |                     | 5167    | <a href="#">Greenhouse Management</a>                      | 4        |
|       |                                         | <b>Landscape Design (5)</b>                             | <b>12, 0910</b>     | 5184    | <a href="#">Principles of Horticultural Sciences</a>       | 1        |
|       |                                         |                                                         |                     | 5163    | <a href="#">Landscaping &amp; Turf Management</a>          | 2        |
|       |                                         |                                                         |                     | 5788    | <a href="#">Computer- Aided Drafting</a>                   | 3        |
|       |                                         |                                                         |                     | 5167    | <a href="#">Greenhouse Management</a>                      | 4        |
| 03    | Arts, A/V Technology & Communication    | <b>Graphic Communications (1)</b>                       | <b>0809</b>         | 5701    | <a href="#">Career Management Success</a>                  | 1        |
|       |                                         |                                                         |                     | 5759    | <a href="#">Visual Communications</a>                      | 2        |
|       |                                         |                                                         |                     | 5760    | <a href="#">Graphic Communications I</a>                   | 3        |
|       |                                         |                                                         |                     | 5761    | <a href="#">Graphic Communications II</a>                  | 4        |
|       |                                         | <b>Design Communications (1)</b>                        | <b>0809</b>         | 5701    | <a href="#">Career Management Success</a>                  | 1        |
|       |                                         |                                                         |                     | 5759    | <a href="#">Visual Communications</a>                      | 2        |
|       |                                         |                                                         |                     | 5762    | <a href="#">Digital Design and Imaging</a>                 | 3        |
|       |                                         | <b>Audio Technology (1)</b>                             | <b>0809</b>         | 5701    | <a href="#">Career Management Success</a>                  | 1        |
|       |                                         |                                                         |                     | 5770    | <a href="#">Audio Technology I</a>                         | 2        |
|       |                                         |                                                         |                     | 5771    | <a href="#">Audio Technology II</a>                        | 3        |
|       |                                         | <b>Fashion Design (3)</b>                               | <b>0910</b>         | 5603    | <a href="#">Family and Consumer Sciences</a>               | 1        |
|       |                                         |                                                         |                     | 5624    | <a href="#">Personal, Academic and Career Excellence</a>   | 2        |
|       |                                         |                                                         |                     | 5621    | <a href="#">Fashion Design and Merchandising</a>           | 3        |
|       |                                         |                                                         |                     | 5619    | <a href="#">Textiles and Apparel</a>                       | 4        |
|       |                                         |                                                         |                     | 5623    | <a href="#">Life Connections</a>                           | 5        |
|       |                                         | <b>Journalism &amp; Broadcasting (1)</b>                | <b>0809</b>         | 5701    | <a href="#">Career Management Success</a>                  | 1        |
|       |                                         |                                                         |                     | 5763    | <a href="#">Media Concepts</a>                             | 2        |
|       |                                         |                                                         |                     | 5764    | <a href="#">Electronic Media Production</a>                | 3        |
|       |                                         |                                                         |                     | 5765    | <a href="#">Electronic Media Management and Operations</a> | 4        |
| 04    | Business Management, and Administration | <b>Human Resources (1)</b>                              | <b>0809</b>         | 3710    | <a href="#">Keyboarding</a>                                | 1        |
|       |                                         |                                                         |                     | 3704    | <a href="#">eBusiness Communications</a>                   | 2        |
|       |                                         |                                                         |                     | 3746    | <a href="#">Interactive Multimedia Presentation</a>        | 3        |
|       |                                         |                                                         |                     | 3730    | <a href="#">Integrated Input Technologies</a>              | 4        |
|       |                                         | <b>Business Management (3)</b>                          | <b>0910</b>         | 3766    | <a href="#">Personal Finance</a>                           | 1        |
|       |                                         |                                                         |                     | 3717    | <a href="#">Financial Planning</a>                         | 2        |
|       |                                         |                                                         |                     | 3779    | <a href="#">Accounting I</a>                               | 3        |
|       |                                         |                                                         |                     | 3707    | <a href="#">Business Management</a>                        | 4        |
|       |                                         |                                                         |                     | 3757    | <a href="#">Virtual Enterprise International</a>           | 5        |
|       |                                         | <b>Business Management (4)</b>                          | <b>HQ, 0910</b>     | 3766    | <a href="#">Personal Finance</a>                           | 1        |
|       |                                         |                                                         |                     | 3717    | <a href="#">Financial Planning</a>                         | 2        |
|       |                                         |                                                         |                     | 3779    | <a href="#">Accounting I</a>                               | 3        |
|       |                                         |                                                         |                     | 3707    | <a href="#">Business Management</a>                        | 4        |
|       |                                         |                                                         |                     | 3762    | <a href="#">Virtual Enterprise International</a>           | 5        |
|       |                                         | <b>Business Financial Management and Accounting (1)</b> | <b>0809</b>         | 3779    | <a href="#">Accounting I</a>                               | 1        |
|       |                                         |                                                         |                     | 3780    | <a href="#">Accounting II</a>                              | 2        |
|       |                                         |                                                         |                     | 3707    | <a href="#">Business Management</a>                        | 3        |

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| Clus# | Cluster                                 | Program of Study                                                        | Description     | Course# | Course                                                   | Sequence |
|-------|-----------------------------------------|-------------------------------------------------------------------------|-----------------|---------|----------------------------------------------------------|----------|
| 04    | Business Management, and Administration | <b>Business Analysis (4)</b>                                            | <b>HQ, 0910</b> | 3766    | <a href="#">Personal Finance</a>                         | 1        |
|       |                                         |                                                                         |                 | 3717    | <a href="#">Financial Planning</a>                       | 2        |
|       |                                         |                                                                         |                 | 3779    | <a href="#">Accounting I</a>                             | 3        |
|       |                                         |                                                                         |                 | 3755    | <a href="#">Business Economics</a>                       | 4        |
|       |                                         |                                                                         |                 | 3756    | <a href="#">Banking and Finance</a>                      | 5        |
|       |                                         | <b>Business Analysis (3)</b>                                            | <b>0910</b>     | 3766    | <a href="#">Personal Finance</a>                         | 1        |
|       |                                         |                                                                         |                 | 3717    | <a href="#">Financial Planning</a>                       | 2        |
|       |                                         |                                                                         |                 | 3779    | <a href="#">Accounting I</a>                             | 3        |
|       |                                         |                                                                         |                 | 3765    | <a href="#">Business Economics</a>                       | 4        |
|       |                                         |                                                                         |                 | 3756    | <a href="#">Banking and Finance</a>                      | 5        |
|       |                                         | <b>Administrative and Information Support (1)</b>                       | <b>0809</b>     | 3710    | <a href="#">Keyboarding</a>                              | 1        |
|       |                                         |                                                                         |                 | 3775    | <a href="#">Keyboarding/Document Formatting</a>          | 2        |
|       |                                         |                                                                         |                 | 3727    | <a href="#">Keyboarding/Document Layout and Design</a>   | 3        |
|       |                                         |                                                                         |                 | 3735    | <a href="#">Database Design/Management</a>               | 4        |
|       |                                         |                                                                         |                 | 3704    | <a href="#">eBusiness Communications</a>                 | 5        |
|       |                                         |                                                                         |                 | 3737    | <a href="#">Administrative Management</a>                | 6        |
|       |                                         | <b>Communications Development (1)</b>                                   | <b>0809</b>     | 3727    | <a href="#">Keyboarding/Document Layout and Design</a>   | 1        |
|       |                                         |                                                                         |                 | 3704    | <a href="#">eBusiness Communications</a>                 | 2        |
|       |                                         |                                                                         |                 | 3737    | <a href="#">Administrative Management Systems</a>        | 3        |
|       |                                         |                                                                         |                 | 3746    | <a href="#">Interactive Multimedia Presentation</a>      | 4        |
| 05    | Education and Training                  | <b>Teaching Training Services (2)</b>                                   | <b>0910</b>     | 5603    | <a href="#">Family and Consumer Sciences</a>             | 1        |
|       |                                         |                                                                         |                 | 5624    | <a href="#">Personal, Academic and Career Excellence</a> | 2        |
|       |                                         |                                                                         |                 | 5625    | <a href="#">Child and Lifespan Development</a>           | 3        |
|       |                                         |                                                                         |                 | 5623    | <a href="#">Life Connections</a>                         | 4        |
|       |                                         |                                                                         |                 | 5622    | <a href="#">Teaching as a Profession</a>                 | 5        |
|       |                                         | <b>Teaching Training Services - Pre K-Early Childhood Education (2)</b> | <b>0910</b>     | 5603    | <a href="#">Family and Consumer Sciences</a>             | 1        |
|       |                                         |                                                                         |                 | 5624    | <a href="#">Personal, Academic and Career Excellence</a> | 2        |
|       |                                         |                                                                         |                 | 5650    | <a href="#">Early Childhood Education Careers I</a>      | 3        |
|       |                                         |                                                                         |                 | 5660    | <a href="#">Early Childhood Education Careers II</a>     | 4        |
|       |                                         |                                                                         |                 | 5661    | <a href="#">Early Childhood Education Careers III</a>    | 5        |
|       |                                         | <b>Teaching Training Services - Pre K-Early Childhood Education (3)</b> | <b>0910</b>     | 5603    | <a href="#">Family and Consumer Sciences</a>             | 1        |
|       |                                         |                                                                         |                 | 5624    | <a href="#">Personal, Academic and Career Excellence</a> | 2        |
|       |                                         |                                                                         |                 | 5650    | <a href="#">Early Childhood Education Careers I</a>      | 3        |
|       |                                         |                                                                         |                 | 5660    | <a href="#">Early Childhood Education Careers II</a>     | 4        |
|       |                                         |                                                                         |                 | 5662    | <a href="#">Early Childhood Education Careers II/III</a> | 5        |
| 06    | Finance                                 | <b>Banking and Finance (2)</b>                                          | <b>0910</b>     | 3779    | <a href="#">Accounting I</a>                             | 1        |
|       |                                         |                                                                         |                 | 3766    | <a href="#">Personal Finance</a>                         | 2        |
|       |                                         |                                                                         |                 | 3717    | <a href="#">Financial Planning</a>                       | 3        |
|       |                                         |                                                                         |                 | 3756    | <a href="#">Banking and Finance</a>                      | 4        |
|       |                                         | <b>Financial Planning (4)</b>                                           | <b>HQ, 0910</b> | 3766    | <a href="#">Personal Finance</a>                         | 1        |
|       |                                         |                                                                         |                 | 3717    | <a href="#">Financial Planning</a>                       | 2        |
|       |                                         |                                                                         |                 | 3755    | <a href="#">Business Economics</a>                       | 3        |
|       |                                         |                                                                         |                 | 3719    | <a href="#">American Business/Legal Systems</a>          | 4        |
|       |                                         |                                                                         |                 | 3756    | <a href="#">Banking and Finance</a>                      | 5        |
|       |                                         | <b>Financial Planning (3)</b>                                           | <b>0910</b>     | 3766    | <a href="#">Personal Finance</a>                         | 1        |
|       |                                         |                                                                         |                 | 3717    | <a href="#">Financial Planning</a>                       | 2        |
|       |                                         |                                                                         |                 | 3765    | <a href="#">Business Economics</a>                       | 3        |
|       |                                         |                                                                         |                 | 3726    | <a href="#">American Business/Legal Systems</a>          | 4        |
|       |                                         |                                                                         |                 | 3756    | <a href="#">Banking and Finance</a>                      | 5        |

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| Clus# | Cluster                            | Program of Study                                          | Description     | Course# | Course                                     | Sequence |
|-------|------------------------------------|-----------------------------------------------------------|-----------------|---------|--------------------------------------------|----------|
| 07    | Government & Public Administration | <b>Public/Nonprofit Management and Administration (2)</b> | <b>0910</b>     | 3766    | <a href="#">Personal Finance</a>           | 1        |
|       |                                    |                                                           |                 | 3717    | <a href="#">Financial Planning</a>         | 2        |
|       |                                    |                                                           |                 | 3704    | <a href="#">eBusiness Communications</a>   | 3        |
|       |                                    |                                                           |                 | 3737    | <a href="#">Administrative Management</a>  | 4        |
|       |                                    |                                                           |                 | 3707    | <a href="#">Business Management</a>        | 5        |
|       |                                    | <b>National Security (1)</b>                              | <b>0809</b>     | 5701    | <a href="#">Career Management Success</a>  | 1        |
|       |                                    |                                                           |                 | 5330    | <a href="#">Criminal Justice I</a>         | 2        |
|       |                                    |                                                           |                 | 5331    | <a href="#">Criminal Justice II</a>        | 3        |
|       |                                    |                                                           |                 | 5342    | <a href="#">Criminal Justice III</a>       | 4        |
|       |                                    | <b>National Security (2)</b>                              | <b>0910</b>     | 5701    | <a href="#">Career Management Success</a>  | 1        |
|       |                                    |                                                           |                 | 5330    | <a href="#">Criminal Justice I</a>         | 2        |
|       |                                    |                                                           |                 | 5331    | <a href="#">Criminal Justice II</a>        | 3        |
|       |                                    |                                                           |                 | 5343    | <a href="#">Criminal Justice II/III</a>    | 4        |
| 08    | Health Science                     | <b>Biotechnology Research and Development (1)</b>         | <b>0809</b>     | 5504    | <a href="#">Health Science Education</a>   | 1        |
|       |                                    |                                                           |                 | 5511    | <a href="#">Diagnostic Medicine</a>        | 2        |
|       |                                    |                                                           |                 | 5512    | <a href="#">Anatomy and Physiology</a>     | 3        |
|       |                                    |                                                           |                 | 5514    | <a href="#">Forensic Science</a>           | 4        |
|       |                                    | <b>Biotechnology Research and Development (2)</b>         | <b>HQ, 0809</b> | 5504    | <a href="#">Health Science Education</a>   | 1        |
|       |                                    |                                                           |                 | 5511    | <a href="#">Diagnostic Medicine</a>        | 2        |
|       |                                    |                                                           |                 | 5509    | <a href="#">Anatomy and Physiology</a>     | 3        |
|       |                                    |                                                           |                 | 5514    | <a href="#">Forensic Science</a>           | 4        |
|       |                                    | <b>Diagnostic Services (1)</b>                            | <b>0809</b>     | 5504    | <a href="#">Health Science Education</a>   | 1        |
|       |                                    |                                                           |                 | 5503    | <a href="#">Rehabilitative Therapies</a>   | 2        |
|       |                                    |                                                           |                 | 5511    | <a href="#">Diagnostic Medicine</a>        | 3        |
|       |                                    |                                                           |                 | 5501    | <a href="#">Clinical Internship</a>        | 4        |
|       |                                    | <b>Health Informatics (1)</b>                             | <b>0809</b>     | 5504    | <a href="#">Health Science Education</a>   | 1        |
|       |                                    |                                                           |                 | 5511    | <a href="#">Diagnostic Medicine</a>        | 2        |
|       |                                    |                                                           |                 | 5505    | <a href="#">Health Informatics</a>         | 3        |
|       |                                    |                                                           |                 | 5501    | <a href="#">Clinical Internship</a>        | 4        |
|       |                                    | <b>Support Services (1)</b>                               | <b>0809</b>     | 5504    | <a href="#">Health Science Education</a>   | 1        |
|       |                                    |                                                           |                 | 5506    | <a href="#">Medical Therapeutics</a>       | 2        |
|       |                                    |                                                           |                 | 5500    | <a href="#">Support Services</a>           | 3        |
|       |                                    |                                                           |                 | 5501    | <a href="#">Clinical Internship</a>        | 4        |
|       |                                    | <b>Therapeutic Services (2)</b>                           | <b>0910</b>     | 5504    | <a href="#">Health Science Education</a>   | 1        |
|       |                                    |                                                           |                 | 5506    | <a href="#">Medical Therapeutics</a>       | 2        |
|       |                                    |                                                           |                 | 5512    | <a href="#">Anatomy and Physiology</a>     | 3        |
|       |                                    |                                                           |                 | 5507    | <a href="#">Nursing Education</a>          | 4        |
|       |                                    | <b>Therapeutic Services (3)</b>                           | <b>HQ, 0910</b> | 5504    | <a href="#">Health Science Education</a>   | 1        |
|       |                                    |                                                           |                 | 5506    | <a href="#">Medical Therapeutics</a>       | 2        |
|       |                                    |                                                           |                 | 5509    | <a href="#">Anatomy and Physiology</a>     | 3        |
|       |                                    |                                                           |                 | 5507    | <a href="#">Nursing Education</a>          | 4        |
|       |                                    | <b>Therapeutic Emergency Services (1)</b>                 | <b>0910</b>     | 5504    | <a href="#">Health Science Education</a>   | 1        |
|       |                                    |                                                           |                 | 5506    | <a href="#">Medical Therapeutics</a>       | 2        |
|       |                                    |                                                           |                 | 5512    | <a href="#">Anatomy and Physiology</a>     | 3        |
|       |                                    |                                                           |                 | 5510    | <a href="#">Emergency Medical Services</a> | 4        |
|       |                                    | <b>Therapeutic Emergency Services (2)</b>                 | <b>HQ, 0910</b> | 5504    | <a href="#">Health Science Education</a>   | 1        |
|       |                                    |                                                           |                 | 5506    | <a href="#">Medical Therapeutics</a>       | 2        |
|       |                                    |                                                           |                 | 5509    | <a href="#">Anatomy and Physiology</a>     | 3        |
|       |                                    |                                                           |                 | 5510    | <a href="#">Emergency Medical Services</a> | 4        |

**Clusters-Programs of Study 2011-2012**

| Clus# | Cluster                 | Program of Study                                             | Description     | Course# | Course                                                    | Sequence |
|-------|-------------------------|--------------------------------------------------------------|-----------------|---------|-----------------------------------------------------------|----------|
| 09    | Hospitality and Tourism | <b>Food and Beverage Services (2)</b>                        | <b>TI, 0809</b> | 5701    | <a href="#">Career Management Success</a>                 | 1        |
|       |                         |                                                              |                 | 5381    | <a href="#">Culinary Arts I</a>                           | 2        |
|       |                         |                                                              |                 | 5382    | <a href="#">Culinary Arts II</a>                          | 3        |
|       |                         |                                                              |                 | 5383    | <a href="#">Culinary Arts III</a>                         | 4        |
|       |                         | <b>Food and Beverage Services (5)</b>                        | <b>TI, 0910</b> | 5701    | <a href="#">Career Management Success</a>                 | 1        |
|       |                         |                                                              |                 | 5381    | <a href="#">Culinary Arts I</a>                           | 2        |
|       |                         |                                                              |                 | 5382    | <a href="#">Culinary Arts II</a>                          | 3        |
|       |                         |                                                              |                 | 5384    | <a href="#">Culinary Arts II/III</a>                      | 4        |
|       |                         | <b>Food and Beverage Services (3)</b>                        | <b>FC, 0910</b> | 5603    | <a href="#">Family and Consumer Sciences</a>              | 1        |
|       |                         |                                                              |                 | 5624    | <a href="#">Personal, Academic and Career Excellence</a>  | 2        |
|       |                         |                                                              |                 | 5656    | <a href="#">Culinary Arts I</a>                           | 3        |
|       |                         |                                                              |                 | 5657    | <a href="#">Culinary Arts II</a>                          | 4        |
|       |                         |                                                              |                 | 5658    | <a href="#">Culinary Arts III</a>                         | 5        |
|       |                         | <b>Food and Beverage Services (4)</b>                        | <b>FC, 0910</b> | 5603    | <a href="#">Family and Consumer Sciences</a>              | 1        |
|       |                         |                                                              |                 | 5624    | <a href="#">Personal, Academic and Career Excellence</a>  | 2        |
|       |                         |                                                              |                 | 5656    | <a href="#">Culinary Arts I</a>                           | 3        |
|       |                         |                                                              |                 | 5657    | <a href="#">Culinary Arts II</a>                          | 4        |
|       |                         |                                                              |                 | 5659    | <a href="#">Culinary Arts II/III</a>                      | 5        |
|       |                         | <b>Hospitality Management and Lodging Services (2)</b>       | <b>HQ, 0809</b> | 5000    | <a href="#">Marketing and Management I Principles</a>     | 1        |
|       |                         |                                                              |                 | 5003    | <a href="#">Travel and Tourism Operations</a>             | 2        |
|       |                         |                                                              |                 | 5026    | <a href="#">Lodging Operations/Hospitality Management</a> | 3        |
|       |                         | <b>Hospitality Management and Lodging Services (1)</b>       | <b>0809</b>     | 5030    | <a href="#">Marketing and Management I Principles</a>     | 1        |
|       |                         |                                                              |                 | 5003    | <a href="#">Travel and Tourism Operations</a>             | 2        |
|       |                         |                                                              |                 | 5026    | <a href="#">Lodging Operations/Hospitality Management</a> | 3        |
|       |                         | <b>Recreation, Attractions, Sports and Entertainment (2)</b> | <b>HQ, 0809</b> | 5000    | <a href="#">Marketing and Management I Principles</a>     | 1        |
|       |                         |                                                              |                 | 5003    | <a href="#">Travel and Tourism Operations</a>             | 2        |
|       |                         |                                                              |                 | 5023    | <a href="#">Sports and Entertainment Marketing</a>        | 3        |
|       |                         | <b>Recreation, Attractions, Sports and Entertainment (1)</b> | <b>0809</b>     | 5030    | <a href="#">Marketing and Management I Principles</a>     | 1        |
|       |                         |                                                              |                 | 5003    | <a href="#">Travel and Tourism Operations</a>             | 2        |
|       |                         |                                                              |                 | 5023    | <a href="#">Sports and Entertainment Marketing</a>        | 3        |
|       |                         | <b>Travel and Tourism (2)</b>                                | <b>HQ, 0809</b> | 5025    | <a href="#">Foundations of the Hospitality Industry</a>   | 1        |
|       |                         |                                                              |                 | 5000    | <a href="#">Marketing and Management I Principles</a>     | 2        |
|       |                         |                                                              |                 | 5003    | <a href="#">Travel and Tourism Operations</a>             | 3        |
|       |                         |                                                              |                 | 5004    | <a href="#">Services Marketing</a>                        | 4        |
|       |                         | <b>Travel and Tourism (1)</b>                                | <b>0809</b>     | 5025    | <a href="#">Foundations of the Hospitality Industry</a>   | 1        |
|       |                         |                                                              |                 | 5030    | <a href="#">Marketing and Management I Principles</a>     | 2        |
|       |                         |                                                              |                 | 5003    | <a href="#">Travel and Tourism Operations</a>             | 3        |
|       |                         |                                                              |                 | 5034    | <a href="#">Services Marketing</a>                        | 4        |
| 10    | Human Services          | <b>Family and Community Services (2)</b>                     | <b>0910</b>     | 5603    | <a href="#">Family and Consumer Sciences</a>              | 1        |
|       |                         |                                                              |                 | 5624    | <a href="#">Personal, Academic and Career Excellence</a>  | 2        |
|       |                         |                                                              |                 | 5625    | <a href="#">Child and Lifespan Development</a>            | 3        |
|       |                         |                                                              |                 | 5609    | <a href="#">Nutrition and Foods</a>                       | 4        |
|       |                         |                                                              |                 | 5623    | <a href="#">Life Connections</a>                          | 5        |
|       |                         | <b>Early Childhood Development and Services (3)</b>          | <b>0910</b>     | 5603    | <a href="#">Family and Consumer Sciences</a>              | 1        |
|       |                         |                                                              |                 | 5624    | <a href="#">Personal, Academic and Career Excellence</a>  | 2        |
|       |                         |                                                              |                 | 5650    | <a href="#">Early Childhood Education Careers I</a>       | 3        |
|       |                         |                                                              |                 | 5660    | <a href="#">Early Childhood Education Careers II</a>      | 4        |
|       |                         |                                                              |                 | 5661    | <a href="#">Early Childhood Education Careers III</a>     | 5        |

**Clusters-Programs of Study 2011-2012**

| Clus# | Cluster                | Program of Study                             | Description | Course# | Course                                                   | Sequence |
|-------|------------------------|----------------------------------------------|-------------|---------|----------------------------------------------------------|----------|
| 10    | Human Services         | Early Childhood Development and Services (4) | 0910        | 5603    | <a href="#">Family and Consumer Sciences</a>             | 1        |
|       |                        |                                              |             | 5624    | <a href="#">Personal, Academic and Career Excellence</a> | 2        |
|       |                        |                                              |             | 5650    | <a href="#">Early Childhood Education Careers I</a>      | 3        |
|       |                        |                                              |             | 5660    | <a href="#">Early Childhood Education Careers II</a>     | 4        |
|       |                        |                                              |             | 5662    | <a href="#">Early Childhood Education Careers II/III</a> | 5        |
|       |                        | Counseling and Mental Health Services (2)    | 0910        | 5603    | <a href="#">Family and Consumer Sciences</a>             | 1        |
|       |                        |                                              |             | 5624    | <a href="#">Personal, Academic and Career Excellence</a> | 2        |
|       |                        |                                              |             | 5625    | <a href="#">Child and Lifespan Development</a>           | 3        |
|       |                        |                                              |             | 5606    | <a href="#">Family and Parenting</a>                     | 4        |
|       |                        |                                              |             | 5623    | <a href="#">Life Connections</a>                         | 5        |
|       |                        | Consumer Services (4)                        | HQ, 0910    | 5603    | <a href="#">Family and Consumer Sciences</a>             | 1        |
|       |                        |                                              |             | 5624    | <a href="#">Personal, Academic and Career Excellence</a> | 2        |
|       |                        |                                              |             | 5613    | <a href="#">Personal Finance</a>                         | 3        |
|       |                        |                                              |             | 5602    | <a href="#">Consumer Economics</a>                       | 4        |
|       |                        |                                              |             | 5623    | <a href="#">Life Connections</a>                         | 5        |
|       |                        | Consumer Services (3)                        | 0910        | 5603    | <a href="#">Family and Consumer Sciences</a>             | 1        |
|       |                        |                                              |             | 5624    | <a href="#">Personal, Academic and Career Excellence</a> | 2        |
|       |                        |                                              |             | 5613    | <a href="#">Personal Finance</a>                         | 3        |
|       |                        |                                              |             | 5605    | <a href="#">Consumer Economics</a>                       | 4        |
|       |                        |                                              |             | 5623    | <a href="#">Life Connections</a>                         | 5        |
|       |                        | Nutritional Counseling (1)                   | 0910        | 5603    | <a href="#">Family and Consumer Sciences</a>             | 1        |
|       |                        |                                              |             | 5624    | <a href="#">Personal, Academic and Career Excellence</a> | 2        |
|       |                        |                                              |             | 5609    | <a href="#">Nutrition and Foods</a>                      | 3        |
|       |                        |                                              |             | 5617    | <a href="#">Nutrition Science</a>                        | 4        |
|       |                        |                                              |             | 5625    | <a href="#">Child and Lifespan Development</a>           | 5        |
|       |                        | Nutritional Counseling (2)                   | HQ, 0910    | 5603    | <a href="#">Family and Consumer Sciences</a>             | 1        |
|       |                        |                                              |             | 5624    | <a href="#">Personal, Academic and Career Excellence</a> | 2        |
|       |                        |                                              |             | 5609    | <a href="#">Nutrition and Foods</a>                      | 3        |
|       |                        |                                              |             | 5616    | <a href="#">Nutrition Science HQ</a>                     | 5        |
|       |                        |                                              |             | 5625    | <a href="#">Child and Lifespan Development</a>           | 6        |
|       |                        | Nutritional Counseling (3)                   | HQ, 0910    | 5603    | <a href="#">Family and Consumer Sciences</a>             | 1        |
|       |                        |                                              |             | 5624    | <a href="#">Personal, Academic and Career Excellence</a> | 2        |
|       |                        |                                              |             | 5609    | <a href="#">Nutrition and Foods</a>                      | 3        |
|       |                        |                                              |             | 5615    | <a href="#">Nutrition Science</a>                        | 4        |
|       |                        |                                              |             | 5625    | <a href="#">Child and Lifespan Development</a>           | 5        |
|       |                        | Nutritional Counseling (4)                   | 0910        | 5603    | <a href="#">Family and Consumer Sciences</a>             | 1        |
|       |                        |                                              |             | 5624    | <a href="#">Personal, Academic and Career Excellence</a> | 2        |
|       |                        |                                              |             | 5609    | <a href="#">Nutrition and Foods</a>                      | 3        |
|       |                        |                                              |             | 5618    | <a href="#">Nutrition Science</a>                        | 4        |
|       |                        |                                              |             | 5625    | <a href="#">Child and Lifespan Development</a>           | 5        |
|       |                        | Personal Care Services (1)                   | 0809        | 5701    | <a href="#">Career Management Success</a>                | 1        |
|       |                        |                                              |             | 5338    | <a href="#">Principles of Cosmetology</a>                | 2        |
|       |                        |                                              |             | 5339    | <a href="#">Design Principles of Cosmetology</a>         | 3        |
|       |                        |                                              |             | 5340    | <a href="#">Chemistry of Cosmetology</a>                 | 4        |
|       |                        |                                              |             | 5341    | <a href="#">Cosmetology</a>                              | 5        |
| 11    | Information Technology | Electronic Publishing (1)                    | 0809        | 3727    | <a href="#">Keyboarding/Document Layout and Design</a>   | 1        |
|       |                        |                                              |             | 3704    | <a href="#">eBusiness Communications</a>                 | 2        |
|       |                        |                                              |             | 3741    | <a href="#">Desktop Publishing</a>                       | 3        |
|       |                        |                                              |             | 3716    | <a href="#">Career Connections</a>                       | 4        |
|       |                        | Interactive Multimedia (1)                   | 0809        | 3718    | <a href="#">Computer Applications</a>                    | 1        |
|       |                        |                                              |             | 3746    | <a href="#">Interactive Multimedia Presentation</a>      | 2        |
|       |                        |                                              |             | 3741    | <a href="#">Desktop Publishing</a>                       | 3        |

**Clusters-Programs of Study 2011-2012**

| Clus# | Cluster                                    | Program of Study                               | Description      | Course# | Course                                                    | Sequence |
|-------|--------------------------------------------|------------------------------------------------|------------------|---------|-----------------------------------------------------------|----------|
| 11    | Information Technology                     | <b>Web/Multimedia Management/Webmaster (1)</b> | <b>0910</b>      | 3718    | <a href="#">Computer Applications</a>                     | 1        |
|       |                                            |                                                |                  | 3746    | <a href="#">Interactive Multimedia Presentation</a>       | 2        |
|       |                                            |                                                |                  | 3768    | <a href="#">Web Design Essentials</a>                     | 3        |
|       |                                            |                                                |                  | 3769    | <a href="#">Web Design Applications</a>                   | 4        |
|       |                                            | <b>Networking Systems (1)</b>                  | <b>BT, 0809</b>  | 3764    | <a href="#">Information Technology Foundations</a>        | 1        |
|       |                                            |                                                |                  | 3763    | <a href="#">Computer Operating Systems and Hardware</a>   | 2        |
|       |                                            |                                                |                  | 3778    | <a href="#">Networking Essentials</a>                     | 3        |
|       |                                            | <b>Networking Systems (2)</b>                  | <b>TI, 0809</b>  | 5755    | <a href="#">Information Technology Foundations</a>        | 1        |
|       |                                            |                                                |                  | 5756    | <a href="#">Computer Operating Systems and Hardware</a>   | 2        |
|       |                                            |                                                |                  | 5757    | <a href="#">Networking</a>                                | 3        |
|       |                                            |                                                |                  | 5758    | <a href="#">Cabling Technology</a>                        | 4        |
|       |                                            | <b>Web Design (1)</b>                          | <b>BT, 0809</b>  | 3758    | <a href="#">Website-Foundations</a>                       | 1        |
|       |                                            |                                                |                  | 3759    | <a href="#">Webpage Design -Site Designer</a>             | 2        |
|       |                                            |                                                |                  | 3760    | <a href="#">Webpage Design-eCommerce</a>                  | 3        |
|       |                                            | <b>Web Design (3)</b>                          | <b>TI, 0809</b>  | 5766    | <a href="#">Web Site I - Foundations</a>                  | 1        |
|       |                                            |                                                |                  | 5767    | <a href="#">Web Page Design II - Site Design</a>          | 2        |
|       |                                            |                                                |                  | 5769    | <a href="#">Webpage Design III-eCommerce</a>              | 3        |
|       |                                            | <b>Web Design (2)</b>                          | <b>TEE, 0809</b> | 3815    | <a href="#">Web Site I - Foundations</a>                  | 1        |
|       |                                            |                                                |                  | 3816    | <a href="#">Web Page Design II - Site Design</a>          | 2        |
|       |                                            |                                                |                  | 3817    | <a href="#">Webpage Design III-eCommerce</a>              | 3        |
| 12    | Law, Public Safety, Corrections & Security | <b>Law Enforcement Services (1)</b>            | <b>0809</b>      | 5701    | <a href="#">Career Management Success</a>                 | 1        |
|       |                                            |                                                |                  | 5330    | <a href="#">Criminal Justice I</a>                        | 2        |
|       |                                            |                                                |                  | 5331    | <a href="#">Criminal Justice II</a>                       | 3        |
|       |                                            |                                                |                  | 5342    | <a href="#">Criminal Justice III</a>                      | 4        |
|       |                                            | <b>Law Enforcement Services (2)</b>            | <b>0910</b>      | 5701    | <a href="#">Career Management Success</a>                 | 1        |
|       |                                            |                                                |                  | 5330    | <a href="#">Criminal Justice I</a>                        | 2        |
|       |                                            |                                                |                  | 5331    | <a href="#">Criminal Justice II</a>                       | 3        |
|       |                                            |                                                |                  | 5343    | <a href="#">Criminal Justice II/III</a>                   | 4        |
|       |                                            | <b>Security &amp; Protective Services (2)</b>  | <b>TI, 0809</b>  | 5755    | <a href="#">Information Technology Foundations</a>        | 1        |
|       |                                            |                                                |                  | 5756    | <a href="#">Computer Operating Systems and Hardware</a>   | 2        |
|       |                                            |                                                |                  | 5757    | <a href="#">Networking</a>                                | 3        |
|       |                                            |                                                |                  | 5758    | <a href="#">Cabling Technology</a>                        | 4        |
|       |                                            | <b>Security &amp; Protective Services (1)</b>  | <b>BT, 0809</b>  | 3764    | <a href="#">Information Technology Foundations</a>        | 1        |
|       |                                            |                                                |                  | 3763    | <a href="#">Computer Operating Systems and Hardware</a>   | 2        |
|       |                                            |                                                |                  | 3778    | <a href="#">Networking Essentials</a>                     | 3        |
| 13    | Manufacturing                              | <b>Production Design (2)</b>                   | <b>TI, 0809</b>  | 5701    | <a href="#">Career Management Success</a>                 | 1        |
|       |                                            |                                                |                  | 5788    | <a href="#">Computer- Aided Drafting</a>                  | 2        |
|       |                                            |                                                |                  | 5789    | <a href="#">Advanced Computer-Aided Drafting</a>          | 3        |
|       |                                            | <b>Production Design (1)</b>                   | <b>TEE, 0809</b> | 5701    | <a href="#">Career Management Success</a>                 | 1        |
|       |                                            |                                                |                  | 3823    | <a href="#">Computer- Aided Drafting</a>                  | 2        |
|       |                                            |                                                |                  | 3824    | <a href="#">Advanced Computer-Aided Drafting</a>          | 3        |
|       |                                            | <b>Operations &amp; Maintenance (1)</b>        | <b>0809</b>      | 5701    | <a href="#">Career Management Success</a>                 | 1        |
|       |                                            |                                                |                  | 5781    | <a href="#">Principles of Manufacturing</a>               | 2        |
|       |                                            |                                                |                  | 5786    | <a href="#">Basic Principles Welding</a>                  | 3        |
|       |                                            |                                                |                  | 5787    | <a href="#">Advanced Welding Applications</a>             | 4        |
|       |                                            | <b>Precision Productions (2)</b>               | <b>TI, 0809</b>  | 5781    | <a href="#">Principles of Manufacturing</a>               | 1        |
|       |                                            |                                                |                  | 5780    | <a href="#">Programming and Logic</a>                     | 2        |
|       |                                            |                                                |                  | 5782    | <a href="#">Principles of Machining and Manufacturing</a> | 3        |
|       |                                            |                                                |                  | 5785    | <a href="#">Manufacturing Applications</a>                | 4        |



**Clusters-Programs of Study 2011-2012**

| Clus# | Cluster                       | Program of Study                 | Description | Course# | Course                                                          | Sequence |
|-------|-------------------------------|----------------------------------|-------------|---------|-----------------------------------------------------------------|----------|
| 13    | Manufacturing                 | Precision Productions (1)        | TEE, 0809   | 3818    | <a href="#">Principles of Manufacturing</a>                     | 1        |
|       |                               |                                  |             | 3819    | <a href="#">Principles of Machining and Manufacturing</a>       | 2        |
|       |                               |                                  |             | 3822    | <a href="#">Manufacturing Applications</a>                      | 3        |
|       |                               | Engineering (2)                  | TI, 0809    | 5791    | <a href="#">Principles of Engineering (PLTW)</a>                | 1        |
|       |                               |                                  |             | 5793    | <a href="#">Introduction To Engineering Design (PLTW)</a>       | 2        |
|       |                               |                                  |             | 5792    | <a href="#">Digital Electronics (PLTW)</a>                      | 3        |
|       |                               |                                  |             | 5794    | <a href="#">Computer Integrated Manufacturing (PLTW)</a>        | 4        |
|       |                               |                                  |             | 5798    | <a href="#">Engineering Design &amp; Development (PLTW)</a>     | 5        |
| 14    | Marketing, Sales and Services | Channel Management (2)           | HQ, 0809    | 5000    | <a href="#">Marketing and Management I Principles</a>           | 1        |
|       |                               |                                  |             | 5020    | <a href="#">Wholesale Logistics</a>                             | 2        |
|       |                               |                                  |             | 5022    | <a href="#">Retail Operations</a>                               | 3        |
|       |                               | Channel Management (1)           | 0809        | 5030    | <a href="#">Marketing and Management I Principles</a>           | 1        |
|       |                               |                                  |             | 5050    | <a href="#">Wholesale Logistics</a>                             | 2        |
|       |                               |                                  |             | 5052    | <a href="#">Retail Operations</a>                               | 3        |
|       |                               | Marketing Communication (2)      | HQ, 0809    | 5000    | <a href="#">Marketing and Management I Principles</a>           | 1        |
|       |                               |                                  |             | 5001    | <a href="#">Marketing and Management II-Advanced Strategies</a> | 2        |
|       |                               |                                  |             | 5016    | <a href="#">Advertising and Public Relations</a>                | 3        |
|       |                               | Marketing Communication (1)      | 0809        | 5030    | <a href="#">Marketing and Management I Principles</a>           | 1        |
|       |                               |                                  |             | 5001    | <a href="#">Marketing and Management II-Advanced Strategies</a> | 2        |
|       |                               |                                  |             | 5016    | <a href="#">Advertising and Public Relations</a>                | 3        |
|       |                               | Marketing Management (2)         | HQ, 0809    | 5000    | <a href="#">Marketing and Management I Principles</a>           | 1        |
|       |                               |                                  |             | 5001    | <a href="#">Marketing and Management II-Advanced Strategies</a> | 2        |
|       |                               |                                  |             | 5018    | <a href="#">Sales Management</a>                                | 3        |
|       |                               | Marketing Management (1)         | 0809        | 5030    | <a href="#">Marketing and Management I Principles</a>           | 1        |
|       |                               |                                  |             | 5001    | <a href="#">Marketing and Management II-Advanced Strategies</a> | 2        |
|       |                               |                                  |             | 5018    | <a href="#">Sales Management</a>                                | 3        |
|       |                               | Marketing Research (2)           | HQ, 0809    | 5000    | <a href="#">Marketing and Management I Principles</a>           | 1        |
|       |                               |                                  |             | 5001    | <a href="#">Marketing and Management II-Advanced Strategies</a> | 2        |
|       |                               |                                  |             | 5017    | <a href="#">Market Research &amp; Analysis</a>                  | 3        |
|       |                               | Marketing Research (1)           | 0809        | 5030    | <a href="#">Marketing and Management I Principles</a>           | 1        |
|       |                               |                                  |             | 5001    | <a href="#">Marketing and Management II-Advanced Strategies</a> | 2        |
|       |                               |                                  |             | 5017    | <a href="#">Market Research &amp; Analysis</a>                  | 3        |
|       |                               | Merchandising (2)                | HQ, 0809    | 5000    | <a href="#">Marketing and Management I Principles</a>           | 1        |
|       |                               |                                  |             | 5001    | <a href="#">Marketing and Management II-Advanced Strategies</a> | 2        |
|       |                               |                                  |             | 5022    | <a href="#">Retail Operations</a>                               | 3        |
|       |                               | Merchandising (1)                | 0809        | 5030    | <a href="#">Marketing and Management I Principles</a>           | 1        |
|       |                               |                                  |             | 5001    | <a href="#">Marketing and Management II-Advanced Strategies</a> | 2        |
|       |                               |                                  |             | 5052    | <a href="#">Retail Operations</a>                               | 3        |
|       |                               | Selling and Sales Management (2) | HQ, 0809    | 5000    | <a href="#">Marketing and Management I Principles</a>           | 1        |
|       |                               |                                  |             | 5018    | <a href="#">Sales Management</a>                                | 2        |
|       |                               |                                  |             | 5004    | <a href="#">Services Marketing</a>                              | 3        |

**Clusters-Programs of Study 2011-2012**

| Clus# | Cluster                                        | Program of Study                                 | Description     | Course# | Course                                                     | Sequence |
|-------|------------------------------------------------|--------------------------------------------------|-----------------|---------|------------------------------------------------------------|----------|
| 14    | Marketing, Sales and Services                  | <b>Selling and Sales Management (1)</b>          | <b>0809</b>     | 5030    | <a href="#">Marketing and Management I Principles</a>      | 1        |
|       |                                                |                                                  |                 | 5018    | <a href="#">Sales Management</a>                           | 2        |
|       |                                                |                                                  |                 | 5034    | <a href="#">Services Marketing</a>                         | 3        |
|       |                                                | <b>Financial Services Marketing (1)</b>          | <b>0910</b>     | 5030    | <a href="#">Marketing and Management I Principles</a>      | 1        |
|       |                                                |                                                  |                 | 5036    | <a href="#">Financial Services Marketing</a>               | 2        |
|       |                                                |                                                  |                 | 5037    | <a href="#">Personal Finance and Building Wealth</a>       | 3        |
|       |                                                | <b>Financial Services Marketing (2)</b>          | <b>HQ, 0910</b> | 5000    | <a href="#">Marketing and Management I Principles</a>      | 1        |
|       |                                                |                                                  |                 | 5006    | <a href="#">Financial Services Marketing</a>               | 2        |
|       |                                                |                                                  |                 | 5037    | <a href="#">Personal Finance and Building Wealth</a>       | 3        |
| 15    | Science, Technology, Engineering & Mathematics | <b>Engineering and Technology (2)</b>            | <b>0910</b>     | 3835    | <a href="#">Foundations of Technology</a>                  | 1        |
|       |                                                |                                                  |                 | 3836    | <a href="#">Technological Issues</a>                       | 2        |
|       |                                                |                                                  |                 | 3838    | <a href="#">Advanced Design Applications</a>               | 3        |
|       |                                                |                                                  |                 | 3839    | <a href="#">Engineering Design</a>                         | 4        |
|       |                                                | <b>Science &amp; Mathematics (2)</b>             | <b>0910</b>     | 3835    | <a href="#">Foundations of Technology</a>                  | 1        |
|       |                                                |                                                  |                 | 3836    | <a href="#">Technological Issues</a>                       | 2        |
|       |                                                |                                                  |                 | 3837    | <a href="#">Advanced Technological Applications</a>        | 3        |
|       |                                                |                                                  |                 | 3813    | <a href="#">Problems and Solutions in Technology</a>       | 4        |
| 16    | Transportation, Distribution, and Logistics    | <b>Automotive Technology (1)</b>                 | <b>0809</b>     | 5702    | <a href="#">Transportation Core</a>                        | 1        |
|       |                                                |                                                  |                 | 5712    | <a href="#">Automotive: Brake Systems</a>                  | 2        |
|       |                                                |                                                  |                 | 5710    | <a href="#">Automotive: Suspension and Steering</a>        | 3        |
|       |                                                |                                                  |                 | 5713    | <a href="#">Automotive/Electrical/Electronics Systems</a>  | 4        |
|       |                                                | <b>Collision Repair Technology (1)</b>           | <b>0809</b>     | 5702    | <a href="#">Transportation Core</a>                        | 1        |
|       |                                                |                                                  |                 | 5707    | <a href="#">Collision Repair: Non Structural</a>           | 2        |
|       |                                                |                                                  |                 | 5708    | <a href="#">Collision Repair: Structural</a>               | 3        |
|       |                                                |                                                  |                 | 5709    | <a href="#">Collision Repair: Painting and Refinishing</a> | 4        |
|       |                                                | <b>Diesel Technology (1)</b>                     | <b>0809</b>     | 5702    | <a href="#">Transportation Core</a>                        | 1        |
|       |                                                |                                                  |                 | 5714    | <a href="#">Diesel: Preventive Maintenance</a>             | 2        |
|       |                                                |                                                  |                 | 5715    | <a href="#">Diesel: Brake Systems</a>                      | 3        |
|       |                                                |                                                  |                 | 5716    | <a href="#">Diesel: Suspension and Steering</a>            | 4        |
|       |                                                |                                                  |                 | 5717    | <a href="#">Diesel: Electrical/Electronic</a>              | 5        |
|       |                                                | <b>Aviation Maintenance (1)</b>                  | <b>0809</b>     | 5701    | <a href="#">Career Management Success</a>                  | 1        |
|       |                                                |                                                  |                 | 5702    | <a href="#">Transportation Core</a>                        | 2        |
|       |                                                |                                                  |                 | 5703    | <a href="#">Aviation Maintenance I</a>                     | 3        |
|       |                                                |                                                  |                 | 5704    | <a href="#">Aviation Maintenance II</a>                    | 4        |
|       |                                                | <b>Aviation Flight (1)</b>                       | <b>0809</b>     | 5701    | <a href="#">Career Management Success</a>                  | 1        |
|       |                                                |                                                  |                 | 5702    | <a href="#">Transportation Core</a>                        | 2        |
|       |                                                |                                                  |                 | 5719    | <a href="#">Introduction to Aerospace</a>                  | 3        |
|       |                                                |                                                  |                 | 5720    | <a href="#">Theory of Flight</a>                           | 4        |
|       |                                                | <b>Leisure Craft/Small Engine Technology (1)</b> | <b>0809</b>     | 5701    | <a href="#">Career Management Success</a>                  | 1        |
|       |                                                |                                                  |                 | 5702    | <a href="#">Transportation Core</a>                        | 2        |
|       |                                                |                                                  |                 | 5705    | <a href="#">Leisure Craft: Systems</a>                     | 3        |
|       |                                                |                                                  |                 | 5706    | <a href="#">Leisure Craft: Small Engine Performance</a>    | 4        |